

CLAIMS

1. A hand-held riveting tool driven by a battery-powered electric motor,
5 comprising a hydraulically-actuated riveting head, and a hydraulic pump
driven by the electric motor, whereby when the motor is operated it drives the
hydraulic pump to actuate the riveting head.
2. A riveting tool as claimed in claim 1, including a tool-actuating device such
as a trigger, and also including a reservoir for hydraulic fluid, the hydraulic
10 supply line from the pump to the riveting head being connected to the
reservoir by a reservoir inlet valve which is normally open to allow hydraulic
fluid to flow from the supply line into the reservoir, in which operation of the
tool-actuating device firstly closes the reservoir inlet valve, and then switches
on the electric motor to operate the pump.
- 15 3. A riveting tool as claimed in claim 2, in which release of the tool-actuating
device firstly switches off the electric motor to stop operation of the pump,
and then opens the reservoir inlet valve.
4. A riveting tool as claimed in claim 2 or claim 3, in which the reservoir inlet
valve when closed by operation of the tool-actuating device as aforesaid also
20 acts as a pressure-relief valve to relieve over-pressure of hydraulic fluid.
5. A riveting tool as claimed in claim 4 in which the reservoir inlet valve is
urged closed by a first spring with a first predetermined force and is urged
open by a second spring with a second predetermined force, operation of the
tool-actuating device removing the action of the second predetermined force,

whereby the valve is thereafter held closed by the first predetermined force regardless of sustained operation of the tool-actuating device, thereby to provide a predetermined pressure at which the valve acts as a pressure relief valve as aforesaid.

- 5 6. A riveting tool as claimed in any of the preceding claims in which the riveting head is adapted to place blind breakstem rivets.
7. A riveting tool as claimed in any of the preceding claims, in which after the motor has been operated to actuate the riveting head as aforesaid and is then switched off, the riveting head is returned to its initial position by means
- 10 independent of the head actuating means.
8. A riveting tool as claimed in claim 7, in which the head is returned to its initial position by means of a spring.
9. A riveting tool as claimed in any of the preceding claims, in which the electric motor, in use, rotates in only one direction.
- 15 10. A riveting tool as claimed in any of the preceding claims, in which the hydraulic pump is a reciprocating pump.
11. A hand-held riveting tool, substantially as hereinbefore described with reference to, and illustrated in, the accompanying drawings.

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